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THE
ONTARIO WATER RESOURCES
COMMISSION

REPORT

on a

GROUND WATER SURVEY

for the

VILLAGE OF STOUFFVILLE

1968

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Village of Stouffville

July, 1967

Municipal Ground Water Survey

E. P. Kilburn

E. P. Kilburn, Geologist.

INTRODUCTION

In compliance with a request from the Village of Stouffville, the Division of Water Resources conducted a ground-water survey in the vicinity of the village. The objective was to recommend areas where additional municipal ground-water supplies could be developed for future residential and industrial needs.

In the survey use was made of water-well data available in the offices of the Division of Water Resources. Well logs for 130 wells in the area were summarized from the office files. During the field work interviews were held with the clerk-treasurer of the Village of Stouffville, Mr. R. Corner, and with the Public Utilities Commission superintendent, Mr. G. Brown, and secretary-treasurer, Mr. G. Baker. Water samples were collected from wells for chemical analyses, and a general geologic reconnaissance was made of the area. Data and locations of the wells are shown on the accompanying tables and map.

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PRESENT WATER SUPPLIES

At present the municipal water-works system obtains water from two, drilled, overburden wells located about 2 miles northwest of the municipality. The maximum output of the wells is reported to be 500 and 350 gpm. Four other water wells are located near the two main municipal wells and are available for emergency purposes. The locations of the main wells are shown on the attached plan. Data are listed in the attached table 1.

POPULATION AND WATER REQUIREMENTS

According to the 1966 municipal directory, the population of the Village of Stouffville was 3701. There are 4 major industries in the village and these consume about 40,000 gpd. The yield of water from the municipal wells is reported to be sufficient to meet present needs. Additional water supplies, if conveniently located, would provide for future growth and industrial development. The location of a supply east of the village would help to increase the pressure in the mains in the eastern part of Stouffville.

HYDROGEOLOGY

Bedrock Aquifers

The formations that make up the bedrock in the region consist mainly of shales which are essentially impermeable because

of their fine-grained nature. They probably yield small quantities of water. Because adequate supplies of water are usually available from the overburden deposits no attempts have been made to develop bedrock wells in the Stouffville area.

Overburden Aquifers

The water-bearing formations or aquifers in the overburden consist of saturated deposits of sand and gravel which are present as interbedded sheets and lenses in the glacial drift. The stratified deposits of silt, sand and gravel were deposited prior to the last major advance of the ice sheet. The regional dip of the deposits is to the south. The aquifer is believed to be part of the stratified deposits located along the Oak Ridges moraine. The materials become finer-grained in a southerly direction from the moraine. The thickness of the aquifer is known to exceed 100 feet and appears to be greatest in the vicinity of the Oak Ridges moraine. The deposit appears to thin gradually to the south. The aquifer unit in the Township of Markham is extensive but appears to have limited thickness. In general, it would appear that the ground-water potential of the aquifer is best in the vicinity of the Oak Ridges moraine. The Village of Stouffville municipal wells terminate in this aquifer. Immediately to the south, in the Township of Markham, the aquifer

is either too thin or too fine-grained to support large capacity wells.

The aquifer supplying the Stouffville wells is exposed at surface in several gravel pits within the Oak Ridges moraine. The geologic logs of water wells in the area suggest that a till sheet of varied thickness overlies the aquifer and that the composition of the aquifer varies laterally from fine sand to gravel. The aquifer at the site of the Stouffville wells has a thickness of about 35 feet. When the wells are operating conditions are changed from confined to unconfined near the wells. To the south, the aquifer is much thinner and is under artesian conditions due to the confining effect of overlying impermeable materials. Many of the wells that terminate in this aquifer, after penetrating the till cover, flow above ground level, some at substantial rates. Recharge to the Stouffville wells is likely dependent on the vertical infiltration of precipitation in the sand deposits farther to the north.

WATER QUALITY

Water samples from five drilled overburden wells and from the municipal system were obtained for chemical analyses. The water analyses results indicate that the water is hard, but the iron content in all samples except two was less than the recommended

upper limit of 0.3 ppm. Other parameters of chemical quality are shown on the attached table 2.

FAVOURABLE TEST DRILLING AREAS

In the selection of favourable test-drilling areas primary consideration is generally given to hydrologic conditions and past test-drilling results. The location of the supply is an important economic consideration and because of this the areas listed below are in order of location rather than hydrologic suitability.

Area 1

Area 1 is located north of Stouffville adjacent to township roads. A water supply located in the eastern part of this area would be closer to the section of the village where water is needed to increase pressures in the water-works system. Wells in this area penetrate various depths of water-bearing sand, however, the grain-size of the sand will govern whether a high capacity well can be constructed in the area. A test hole at the site of well 72 on the map encountered a supply of water mainly in sand. Some gravel was present. Further test drilling should be undertaken to explore the possibility of finding more suitable water-bearing formation. The

drilling could be extended southward along the road between concessions 8 and 9, Township of Whitchurch.

Area 2

Area 2 is located east of the present municipal wells. The data show that conditions similar to those at the existing municipal wells probably extend in an east-west direction from the municipal wells. Wells in the area are reported to obtain water from gravel layers. Additional municipal wells may be located near the existing wells but should be spaced so as to minimize the interference between wells.

Area 3

Area 3 is located north of the existing municipal wells. This area was chosen on the basis of specific capacities and the thickness of the water-bearing formations. Most wells drilled in this area are about 140 feet deep and bottom in sands and gravels. This area should be considered for development only after areas 1 and 2 have been fully explored.

CONCLUSIONS

Additional quantities of water are required by the Village of Stouffville for future growth and industrial expansion. In-

formation gathered during a ground-water survey in the area indicates that the water-bearing formations presently developed by the village are extensive and should be capable of yielding additional supplies. The overburden deposits of sand and gravel along the ridge north of Stouffville and at the existing municipal wells appear to be the most favourable for the development of municipal ground-water supplies. The aquifer extends south of Stouffville but is either too thin or too fine-grained to support large capacity wells. The water from the municipal wells is hard with an acceptable iron content. A high iron content may be a problem in some areas of the aquifer.

A bedrock aquifer capable of yielding sufficient water for municipal needs does not appear to be present in the Stouffville region.

RECOMMENDATIONS

In order to locate an additional supply of ground-water for the Village of Stouffville a test-drilling program should be carried out. The test drilling should be conducted at some distance from the existing municipal wells in order to minimize interference and draw more water into the area.

It is recommended that any test drilling undertaken be in the areas described in the report under "Favourable Test Drilling Areas". Pumping tests should be conducted in order to calculate

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the perennial yield and the degree of interference with other wells. A sum of about \$12,000 would be required to carry out a minimum program of exploratory drilling and testing.

All of which is respectfully submitted,

Prepared by:

E. P. Kilburn,
Geologist.

Supervised by:

YB

T. J. Yakutchik, Supervisor,
Surveys and Projects Branch.

for *[Signature]*
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K. E. Symons, Director,
Division of Water Resources.

February 13, 1968

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AREA OF SURVEY Stouffville
COUNTY York

ONTARIO WATER RESOURCES COMMISSION

TABLE OF WATER WELL RECORDS

DATE October 1966

RECORDER LH

TABLE 1

Well No.	Location			Owner	Driller	Well Type	Well Diameter	Depth	Static Level	Pumping Rate	Pumping Level	Quality	Use	Remarks, Log, etc.
1	Markham	VI	29	H. Miller	D. Loughheed	Dr.	4	232	22	10	80	F	D, S	dug well 50; clay & boulders 125; clay, hardpan 228; medium sand 232.
2	"	VII	28	M. Little	F. Boadway	Dr.	5 1/2	152	60	3	80 8 days	F	D, S	clay 30; hardpan & stone 80; clay & boulders 150; sand & gravel 152.
3	"	VII	31	R. Hallman	G. Fockler 1961	Dr.	2	90	-	-	Dry	-	-	dug well 22; clay & stone 41; sand clay 44; stoner & clay 90.
4	"	VII	35	G. Rodans	D. Graham 1956	Dr.	2	50	20	No Test	-	F	D	dug well 20; clay & stone 40; sand 50.
5	"	VII	35	M. Sinclair	G. Fockler 1961	Dr.	2	40	4	2 1/2	34 12 hrs.	F	D	dug well 20; clay, stone 34; gravel 40.
6	"	VIII	26	J. Reesor	Wilson's Well Drilling 1964	Dr.	5	172	43	18	66 5 hrs.	F	D	dug well 12; clay, stone, sand 170; medium sand 172.
7	"	VIII	29	K. Walker	G. Fockler 1948	Dr.	2	38	Flow	No Test	-	F	D	clay 37; gravel 38.
8	"	VIII	29	K. Walker	F. Boadway 1959	Dr.	5 1/2	65	10	4	12 2 hrs.	F	D, S	dug well 24; hardpan 60; silt & gravel 65.
9	"	VIII	30	D. Hargraves	G. Fockler 1948	Dr.	2	42	Flow	No Test	-	F	D	dug well 22; clay 41; coarse sand 42.
10	"	VIII	30	G. Gosbourne	F. Boadway 1959	Dr.	5 1/4	115	28	2	100 4 hrs.	F	D	dug well 28; hardpan, boulders 60; boulders 75; hardpan 115.
11	"	VIII	30	J. Sherwood	Wilson's Well Drilling 1965	Dr.	5	57	25	4	55 6 hrs.	F	D	top soil 2; clay, boulders 54; sand & gravel 57.
12	"	VIII	31	P. Haley	G. Fockler 1950	Dr.	2	33	flow	-	-	F	D	dug well 14; clay & stone 33.

AREA OF SURVEY Stouffville
COUNTY York

ONTARIO WATER RESOURCES COMMISSION
TABLE OF WATER WELL RECORDS

DATE October 1966

RECORDER LL

Well No.	Location	Owner	Driller	Well Type	Well Diameter	Depth	Static Level	Pumping Rate	Pumping Level	Quality	Use	Remarks, Log, etc.
13	Markham Twp. VIII 31	B. Davidson	F. Boadway 1956	Dr.	5 1/2	220	130	6	140 shrs.	F	D, S	dug well 32; hardpan 185; clay 205; sand & gravel 220.
14	" VIII 31	R. Moses	G. Hart 1962	Dr.	6 1/4	115	30	1/3		F	D	dug well 12; clay & stone 115.
15	" VIII 31	Markham Motel	Gormley Well Drilling 1964	Dr.	6 5/8	132	30	1	132 2 hrs.	F	-	top soil 6; sand & clay 10; clay & stones 129; clay 132.
16	" VIII 31	H. Mark	Vanden Boom Drilling 1964	Dr.	6 5/8	166	71	20	75 10 hrs.	F	E	clay, sand, gravel 150; sand & mud 152; medium sand 156; mud 166. natural gas at 150' cased off. clay 65; coarse sand 65 1/2
17	" VIII 32	W. Yake	B. Roffey 1949	Dr.	3 5/8	65 1/2	20	7	40 7 hrs.	F	D, S	
18	" VIII 34	R. Fenson	G. Fockler 1960	Dr.	2	54	-	-	Dry	-	-	dug well 32; clay & stone 54.
19	" VIII 35	W. Brown	G. Fockler 1960	Dr.	2	56	0	4	0	F	D	sand & clay mix 30; clay 50; coarse sand 56.
20	" VIII 35	M. Dennis	F. Constable 1954	Dr.	4	57	5	10	20 10 hrs.	F	D	fill 5; clay, sand, stones 20; clay & stones 50; sand & stones 57.
21	" VIII 35	W. Brown	D. Graham 1954	Dr.	2	55	Flow	3	5 days	F	D	clay 45; sand 55.
22	" VIII 35	Canadian Petrofina Ltd.	W. Sanderson 1956	Dr.	6 1/4	49	15	8	37 3 hrs.	F	D	top soil 2; clay 42; clay & gravel 49.
23	" VIII 35	E. Gort	G. Fockler 1961	Dr.	2	59	7	Flow into dug well	No TEST	F	D	dug well 20; clay & stones 58; coarse sand 59.
24	" VIII 35	Canadian Petrofina Ltd.	P. Spatuck	Dr.	5	62	20	6	51 3 hrs.	F	D	deepened existing well & screened. Fine sand & gravel 56-62

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TABLE OF WATER WELL RECORDS

DATE October 1966

RECORDER

JL

Well No.	Location			Owner	Driller	Well Type	Well Diameter	Depth	Static Level	Pumping Rate	Pumping Level	Quality	Use	Remarks, Log, etc
25	Markham Twp.	IX	30	J. Vanelder	R. Boadway 1966	Dr.	5 $\frac{1}{4}$	113	75	6	100 2 hrs.	F	D, S	lug 78; sand 113.
26	"	IX	31	B. Foote	F. Boadway 1955	Dr.	5 $\frac{1}{2}$	158	12	8	60 6 hrs.	F	D, S.	lug 17; sand & gravel 30; clay & stone 140; gravel & sand 158.
27	"	IX	32	J. McKaen	Wilson's Well Drilling 1966	Dr.	5	230	155	6	175 48 hrs.	F	D, S	lug well 45; sandy clay, stones 228; water bearing sand 230.
28	Whitchurch Twp.	VI	5	A. Phillip	D. Graham 1952	Dr.	2	58	flow @	3 s.p.m.	No TEST	F	D	clay 57; gravel 58.
29	"	VI	5	D. MacNamara	G. Fockler 1955	Dr.	2	60	flow		No TEST	F	D	clay 50; clay & gravel 60.
30	"	VII	1	G. Rodance	D. Graham 1950	Dr.	2	45	flow @	2 s.p.m.		F	D	clay 40; sand & gravel 45.
31	"	VII	1	Ringwood Christian Church	G. Fockler 1957	Dr.	2	52	3	3	10 $\frac{1}{2}$ hr.	F	D	sand & clay 30; clay & stones 52.
32	"	VII	1	G. Fockler	G. Fockler 1958	Dr.	2	52	8	2	12 4 days	F	D	clay 40; clay & stone 48; gravel & clay 52.
33	"	VIII	1	F. Gemmett	G. Fockler 1964	Dr.	2	40	0	4	4 5 $\frac{1}{2}$ hrs.	F	D	clay & stones 30; clay 36; coarse sand 40.

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ONTARIO WATER RESOURCES COMMISSION

TABLE OF WATER WELL RECORDS

DATE October 1966

RECORDER LL

Well No	Location			Owner	Driller	Well Type	Well Diameter	Depth	Static Level	Pumping Rate	Pumping Level	Quality	Use	Remarks, Log, etc.
34	Whitchurch Twp.	VII	1	G. Rodanz	Wilson Well Drilling 1964	-	-	275	-	Dry	-	-	-	Top soil 2; clay & stones 14; clay & quicksand 34; sandy grunko 80; hardpan & sand 115; sandy hardpan 15; clay & sand 195; clay & stones 265; shale, clay streaks 275.
35	"	VII	1	G. Rodanz	" 1965	Dr.	5	55	Flow	15	10 15 hrs.	F	D, S	Top soil 2; clay 6; quicksand 15; sandy clay 39; clay 46; sand & gravel 55.
36	"	VII	2	G. Bully	Gormley Well Drilling 1964	Dr.	5	50	$\frac{1}{2}$ ' above GL.	8	47 3 hrs.	F	D	Top soil 2; sand & clay 18; clay 41; hardpan 50;
37	"	VII	3	E. Wright	G. Fockler 1957	Dr.	2	68	Flow	-	-	F	D	clay 50; sand & clay 66; gravel 68.
38	"	VII	3	G. Neal	T. White 1965	Dr.	2	45	Flow above GL.	No TEST	-	F	D	clay 40; coarse gravel 45.
39	"	VII	4	G. McKay	F. Boadey 1959	Dr.	$5\frac{1}{4}$	71	Flow +3'	$\frac{1}{2}$	20 2 hrs.	F	D, S	old dug well 23; clay 20; fine gravel 71.
40	"	VII	5	F. Cummins	D. Graham 1950	Dr.	2.	35	Flow	@ 5	7 p.m.	M	D	loam 5; clay 20; sand & gravel 35.
41	"	VII	5	J. Allen	T. White	Dr.	2	45	Flow	-	-	F	D	clay 40; gravel 45.
42	"	VII	5	D. Ratcliff	G. Fockler 1955	Dr.	2	50	Flow	No TEST	-	F	D	clay & stones 46; sand 48; gravel 50.
43	"	VII	5	S. Reesor	G. Fockler 1961	Dr.	2	65	5	$2\frac{1}{2}$	16 16 hrs.	F	D	dirt 5; clay 50; sand, clay 65.
44	"	VII	5	M. Raes	G. Rutledge 1961	Dr.	4	107	$7\frac{1}{2}$	2	28 6 hrs.	F	D	dug well 17; clay & gravel 35; hardpan, coarse gravel 70; clay & gravel streaks 80; sand 100; coarse sand & water 107.

AREA OF SURVEY Stouffville
COUNTY York

ONTARIO WATER RESOURCES COMMISSION

TABLE OF WATER WELL RECORDS

DATE October 1966
RECORDER SLB

Well No	Location	Owner	Driller	Well Type	Well Diameter	Depth	Static Level	Pumping Rate	Pumping Level	Quality	Use	Remarks, Log, etc
45	Whitchurch Twp. VII 5	J. Gilks	G. Fockler 1963	Dr.	2	82	72	6	75 1 hr.	F	D	clay & stones 75; coarse sand 82.
46	" VII 5	J. Jager	G. Fockler 1964	Dr.	2	50	38	5	43 4 1/2 hrs.	F	D	loam 2; clay 8; clay & gravel 9; clay 44; coarse sand 50.
47	" VII 5	W. Dodge	D. Loughheed 1966	Dr.	4	42	flow	@ 8 g.p.m.		F	D	clay 16; clay, streak of gravel 40; coarse sand 42.
48	" VII 6	R. Fairbanks	D. Graham 1952	Dr.	2	80	-	-	Dry	-	-	stony clay 80
49	" VII 6	R. Fairbanks	G. Snider 1954	Dr.	4	120	flow	@ 15 g.p.m.		F	D?	top soil 2; clay & sand 18; gravel 21; stones, clay, sand 40; boulders 43; fine sand & clay 44; boulder, clay 55; fine gravel 70; boulder, clay 120.
50	" VII 6	R. Fairbanks	G. Snider 1955	Dr.	4	150	⊖	NO TEST		-	A	top soil 2; boulder, clay 5; clay 20; hardpan, gravel 21; boulders 23; clay, gravel 45; boulder, clay, hardpan 9; boulder, clay 120; clay 130; boulder, clay, hardpan 150.
51	" VII 6	H. Geer	T. White 1956	Dr.	2	42	36	3	36 4 hrs.	F	D	clay 10; gravel 36; sand 42.
52	" VII 7	I. Munroe	D. Loughheed 1964	Dr.	4	82	5	15	18 2 hrs.	F	D	top soil 1; clay & boulder 76; coarse sand 82;
53	" VII 7	M. Turner	D. Loughheed 1965	Dr.	4	48	flow @ 2 g.p.m.	5	20 2 hrs.	F	D	brown sand 11; silt, boulder 46; dirty gravel 48.
54	" VII 8	Lemonville School	T. White 1960	Dr.	2	36	13	1	-	F	School	dug 20; clay 35; coarse gravel 36. flows into dug well - No Test

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Stouffville

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ONTARIO WATER RESOURCES COMMISSION

TABLE OF WATER WELL RECORDS

DATE October 1966

RECORDER

LH

Well No.	Location			Owner	Driller	Well Type	Well Diameter	Depth	Static Level	Pumping Rate	Pumping Level	Quality	Use	Remarks, Log, etc
55	Whitchurch Twp.	VII	8	G. Winger	G. Fockler 1962	Lr.	2	40	flow	@ 15	gpm.	F	S	clay & stones 26; sand & gravel 32; clay 36; sand & gravel 40.
56	"	VII	8	M. Turner	D. Loushead 1963	Lr.	4	72	flow	@ 50	g.p.m.	F	S?	top soil 1; clay 70; clay & gravel 72.
57	"	VII	9	H. Greer	Rutledge Water Wells 1963	Lr.	5	72	33	10	45 2 hrs.	F	D	top soil 2; brown stony clay 3; brown coarse sand 56; brown fine sand 72.
58	"	VII	9	H. Burden	G. Fockler 1962	Lr.	2	54	10	4	48 6 hrs.	F	D	dug 23; stones & clay 25; sand 48; water sand 54.
59	"	VII	10	United Church	G. Fockler 1964	Lr.	2	129	40	3	122 3 hrs.	F	D	loam & clay 18; sand & clay 70; fine sand & clay 120; sand 129.
60	"	VII	12	A. Atacey	Provincial Drilling 1965	Lr.	4	135	108	6	124 2 hrs.	F	D	top soil 2; clay 18; hardpan 21; clay 42; coarse sand 130; fine sand 135.
61	"	VII	13	F. Saunders	Wilson Well Drilling 1965	Lr.	5	152	131	7	133 3 hrs.	F	D	dry gravel & sand 18; sand 80; hardpan & stones 97; cemented gravel & sand 116; stones & sand 128; sand & gravel 152.
62	"	VIII	1	J. McHaffey	G. Fockler 1952	Lr.	2	53	1	6	15	F	D	dug well 20; clay & stones 52; coarse gravel 53.
63	"	VIII	1	Ringwood School	G. Fockler 1948	Lr.	2	67	flow	6	6 days	F	School	clay with stones 67.
64	"	VIII	1	G. Kerr	G. Fockler 1950	Lr.	2	47	flow			F	D, S	clay 47.
65	"	VIII	2	E. Davies	F. Broadway 1961	Lr.	5 1/4	50	flow	35	18 1 hr.	F	I	clay & stones 15; quicksand 20; clay 28; hardpan 47; gravel 50.

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Stouffville

COUNTY

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ONTARIO WATER RESOURCES COMMISSION

TABLE OF WATER WELL RECORDS

DATE October 1966

RECORDER

JAC

Well No.	Location			Owner	Driller	Well Type	Well Diameter	Depth	Static Level	Pumping Rate	Pumping Level	Quality	Use	Remarks, Log, etc.
66	Whitchurch Twp.	VIII	3	B. de Boer	G. Fockler 1957	Dr.	2	62	flow	NO TEST		F	D	clay 15; clay & stone 61; gravel 62.
67	"	VIII	5	E. Abraham	G. Fockler 1954	Dr.	2	49	8			F	D	dus 21; clay 48; sand & gravel 49.
68	"	VIII	5	D. Davies	G. Fockler 1954	Dr.	2	75	flow			F	D	clay & stones 40; clay 65; fine sand 70; coarse sand 75.
69	"	VIII	5	H. Allen	F. Boadway 1955	Dr.	5 1/2	74	flow			F	D	clay 74
70	"	VIII	5	G. Testa	G. Fockler 1961	Dr.	2	54	flow	@ 2	8 p.m.	F	D	clay 50; sand, gravel, clay mix 54
71	"	VIII	5	R. Ball	Gormley Well Drilling 1962	Dr.	4	67	flow	5	30 3 hrs.	F	D, S	top soil 2; sand 30; clay 62; gravel 63; sand 67.
72	"	VIII	6	Village of Stouffville	M. Faulkner 1965	Dr.	6 1/4	129	flow @ 38.5 p.m.	60	95 2 hrs.	F	TW	top soil 1; clay & stones 25; coarse sand 26; clay 42; fine sand & water 98; sand, gravel, clay 108; clay 129.
73	"	VIII	7	M. Turner	D. Lousheed 1961	Dr.	4	22	flow	@ 300	9 p.m.	F	D	top soil 1; clay 21; gravel 22.
74	"	VIII	7	J. Sweeney	T. White 1956	Dr.	2	42	flow	NO TEST		F	D	clay 40; gravel 42.
75	"	VIII	8	Village of Stouffville	M. Faulkner 1965	Dr.	6 1/4	85	8	100	65 1 hr.	F	TW	top soil 1; clay 15; clay, sand, gravel 24; coarse sand & gravel 70; clay & pebbles 85.
76	"	VIII	8	"	"	Dr.	6 1/4	60	18	75	50 2 hrs.	F	TW	top soil 1; sand & gravel 44; coarse sand, gravel 52; clay 60;
77	"	VIII	9	Stouffville Public Utilities	G. Rutledge			50	9 1/2	700	22' 7"	F	M	top soil 4; clay 18; sand & gravel 44 1/2; hardpan 50.

AREA OF SURVEY Stoutsville
COUNTY York

ONTARIO WATER RESOURCES COMMISSION

TABLE OF WATER WELL RECORDS

DATE October 1966

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AREA OF SURVEY Steuffville
COUNTY York

ONTARIO WATER RESOURCES COMMISSION

TABLE OF WATER WELL RECORDS

DATE October 1966
RECORDER LH

Well No.	Location			Owner	Driller	Well Type	Well Diameter	Depth	Static Level	Pumping Rate	Pumping Level	Quality	Use	Remarks, Log, etc.
88	Whitchurch Twp.	IX	6	P. Mangione	G. Fockler 1962	Dr.	2	50	24	4	44 5 hrs.	F	D	clay & stones 25; clay 44; coarse sand 50.
89	"	IX	6	H. Madden	Gormley Well Drilling 1965	Dr.	5	64	35	15	50 2 1/2 hrs.	F	D	top soil 1; sand 22; sand & clay 55; sand 64.
90	"	IX	6	H. J. Renneberg	G. Fockler 1965	Dr.	2	57	20	5	51 3 hrs.	F	D	clay 29; stone 30; clay 50; sand 57.
91	"	IX	7	W. Ferguson	G. Fockler 1954	Dr.	2	68 1/2	flow	-	-	F	D	clay & stones 30; clay 66; sand 68 1/2.
92	"	IX	7	Sleepy Hollow Golf Club	F. Boadway 1961	Dr.	4 1/4	175	26	15	40 2 hrs.	F	P	clay 20; clay 40; quicksand 140; clay & stone 170; gravel 175.
93	"	IX	7	"	Gormley Well Drilling 1964	Dr.	5	99	30	10	55 2 hrs.	F	TH	top soil 1; sand 8; clay 90; fine sand 99.
94	"	IX	10	H. Prentice	G. Fockler 1952	Dr.	2	75	39	4	57 3 hrs.	F	D	clay & sand 40; fine sand 70; coarse sand 75.
95	"	IX	11	I. McLaughlin	F. Boadway 1959	Dr.	5 1/4	66	48	9	55 2 hrs.	F	D, S	clay & stone 30; clay 60; gravelly clay 66.
96	"	IX	11	E. Smith	T. White 1964	Dr.	2	45	40	5	3 hrs.	F	S	clay 20; sand 45.
97	"	IX	12	Western Sand & Gravel	G. Goodberry 1953	Dr.	6	240	90	10	100	F	D	sand & small amt of gravel 240.
98	"	IX	12	Union Sand & Gravel	D. Lousheed 1959	Dr.	6 5/8	123	59	40	75 7 hrs.	F	C	top soil 1; clay & silt 12; clay & boulders 26; sand & gravel 59; medium sand 123.
99	"	IX	12	Uxbridge Sand & Gravel	D. Lousheed 1962	Dr.	6 5/8	180	63	40	67 8 hrs.	F	C	sand 140; medium sand & fine gravel 180.

ONTARIO WATER RESOURCES COMMISSION

TABLE OF WATER WELL RECORDS

AREA OF SURVEY Stouffville
COUNTY York

DATE October 1966
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Well No.	Location			Owner	Driller	Well Type	Well Diameter	Depth	Static Level	Pumping Rate	Pumping Level	Quality	Use	Remarks, Log, etc.
100	Whitchurch Twp.	X	6	B. Christie	F. Boadway 1959	Lr.	5 1/4	70	45	3	65 8 hrs.	F	D	old dug well 20; gravelly clay 45; clay, small stones 58; fine sand 70;
101	"	X	6	Gudia Bros.	F. Constable 1960	Lr.	4	90	10	3	90 8 hrs.	F	G	top soil 1; clay & sand 40; fine sand 90.
102	"	X	6	F. Bolton	G. Rutledge 1960	Lr.	4	101	46	3	68 5 hrs.	F	D	dug well 40; sand 45; quicksand 70; fine sand 78; sand & clay 81; quicksand, mud 101.
103	"	X	7	N. Tustin	F. Constable 1954	Lr.	4	130	35	10	70 4 hrs.	F	D	top soil 4; clay 40; clay & pebbles 90; coarse gravel 130.
104	Whitchurch Twp.	X	6	F. Fisher	F. Fisher 1960	Lr.	5	174	4	1 1/2	111 1 hr.	F	D	top soil 4; clay & sand 45; quicksand 55; clay & sand 65; clay, small stones 105; clay & sand 140;
105	Whitchurch Twp.	X	6	F. Fisher	F. Fisher 1960	Lr.	5	174	4	1 1/2	111 1 hr.	F	D	top soil 4; clay & sand 45; quicksand 55; clay & sand 65; clay, small stones 105; clay & sand 140;
106	Whitchurch Twp.	X	6	F. Fisher	F. Fisher 1960	Lr.	5	174	4	1 1/2	111 1 hr.	F	D	top soil 4; clay & sand 45; quicksand 55; clay & sand 65; clay, small stones 105; clay & sand 140;
107	"	X	6	F. Fisher	F. Fisher 1960	Lr.	5 1/4	73	50	12	50 1 hr.	F	D	top soil 4; clay & sand 45; quicksand 55; clay & sand 65; clay, small stones 105; clay & sand 140;
108	"	X	6	F. Fisher	F. Fisher 1960	Lr.	5 1/4	72	51	9	50 1 hr.	F	D	top soil 4; clay & sand 45; quicksand 55; clay & sand 65; clay, small stones 105; clay & sand 140;
109	"	X	6	H. Noble	F. Boadway 1964	Lr.	5 1/4	74	50	9	54 1 hr.	F	D	top soil 4; clay & sand 45; quicksand 55; clay & sand 65; clay, small stones 105; clay & sand 140;

AREA OF SURVEY

St. Lawrence

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York

ONTARIO WATER RESOURCES COMMISSION

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W.H.

Well No.	Location			Owner	Driller	Well Type	Well Diameter	Depth	Static Level	Pumping Rate	Pumping Level	Quality	Use	Remarks, Log, etc.
110	Locust	I	7	W.H.	White	20	2	35	20	2	20	F	2.5	Water for irrigation
111				W.H.	White	20	2	35	20	2	20	F	D	Water for irrigation
112		II	1	W.H.	White	20	2	35	20	2	20	F	D	Water for irrigation
113		I	1	W.H.	White	20	2	35	20	2	20	F	D	Water for irrigation
114		I	1	W.H.	White	20	2	35	20	2	20	F	D	Water for irrigation
115		I	1	W.H.	White	20	2	35	20	2	20	F	D	Water for irrigation
116		I	1	W.H.	White	20	2	35	20	2	20	F	D	Water for irrigation
117		I	1	W.H.	White	20	2	35	20	2	20	F	D	Water for irrigation
118		I	1	W.H.	White	20	2	35	20	2	20	F	D	Water for irrigation
119		I	1	W.H.	White	20	2	35	20	2	20	F	D	Water for irrigation
120		I	1	W.H.	White	20	2	35	20	2	20	F	D	Water for irrigation
121		I	1	W.H.	White	20	2	35	20	2	20	F	D	Water for irrigation
122		I	1	W.H.	White	20	2	35	20	2	20	F	D	Water for irrigation
123		I	1	W.H.	White	20	2	35	20	2	20	F	D	Water for irrigation
124		I	1	W.H.	White	20	2	35	20	2	20	F	D	Water for irrigation
125		I	1	W.H.	White	20	2	35	20	2	20	F	D	Water for irrigation
126		I	1	W.H.	White	20	2	35	20	2	20	F	D	Water for irrigation
127		I	1	W.H.	White	20	2	35	20	2	20	F	D	Water for irrigation
128		I	1	W.H.	White	20	2	35	20	2	20	F	D	Water for irrigation
129		I	1	W.H.	White	20	2	35	20	2	20	F	D	Water for irrigation
130		I	1	W.H.	White	20	2	35	20	2	20	F	D	Water for irrigation

AREA OF SURVEY

Stouffville

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York

ONTARIO WATER RESOURCES COMMISSION

TABLE OF WATER WELL RECORDS

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Well No.	Location			Owner	Driller	Well Type	Well Diameter	Depth	Static Level	Pumping Rate	Pumping Level	Quality	Use	Remarks, Log, etc.
117	Whitchurch Twp	III	11	B. Popovich	W. Bishop 1967	Dr	5	110	88	9	101	Fr	D, S	Top soil 1; brown sand 34, blue clay 88; fine sand 100, coarse sand 110.
120	"	III	1	Markham Precast Ltd	N. Frutkiner 1966	Dr	6 1/4	130	4	10	120	F	Ind	Top soil 12, grey clay 15, blue clay 1.114 water 20, grey clay 30, sand & gravel 130. Clay, stone, sand, gravel 130.
121	Markham Twp	III	34	Zachary Farms C.B. Thompson (Manager)	W. Lison 1967	Dr	6	275	5	1 1/2	275	F	D, S	brown clay & stones 9, sandy clay & stones 26, boulders & clay 31, blue clay & stones 80, heavy blue clay 175, brown clay & stones 130, some blue clay 250, stones 275. Clear, pulled.
122	"	III	28	Dickson's Hill Public School	" 1967	Dr	6	181	52	150		F	S 170	pit 10, boulders 30, clay boulders 100, clay stones 150, sand 160, soft clay 170, fine sand 180, very fine sand 187.
123	"	IX	31	A. Kirby	" 1967	Dr	5	215	118	10	150	F	D	brown clay 14, loose sand 20, loose sand & clay 120, grey clay, sand 140 to 180, soft blue clay 118, gravel & brown clay layers 210, fine grey sand 215.
124	"	IX	30	J. Spencer	" 1967	Dr	5	250	50	10	100	F	D	brown sand 70, harapich sand & stones 100, harapich 240, soft blue clay 247, brown sand 250.

ONTARIO WATER RESOURCES COMMISSION

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AREA OF SURVEY

Alexandria

COUNTY

York

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RECORDER

L. J. G.

Well No.	Location			Owner	Driller	Well Type	Well Diameter	Depth	Static Level	Pumping Rate	Pumping Level	Quality	Use	Remarks, Log, etc.
125	Markham	IX	35	Alexandria	N. Faulkner 1965	●	6 $\frac{1}{4}$	323	140	5	254	F		Top soil 1; brown clay & stones 10; brown sandy gravel 27; gray cemented gravel 75; gray clay & gravel 253; gray sand & water 254; gray clay 290; gray jumbo clay 323;
126	"	IX	34	"	"	●	6 $\frac{1}{4}$	171	10	5	75	F		Top soil 1; brown clay & stones 12; brown sandy gravel & stones 34; gray clay, gravel & stones 70; brown sandy gravel 75; gray clay & boulders 771.
127	"	IX	1	"	"	●	6 $\frac{1}{4}$	192	10	10	18	F		Top soil 1; brown clay & stones 13; brown coarse sandy gravel 18; gray clay & pebbles 80; brown fine gravel 84; gray clay & pebbles 192.
128	"	IX	35	"	"	●	8	33						brown clay 8; brown sandy clay & stones 20; gray fine sandy clay & stones 33
129	"	IX	35	"	"	●	8	177						brown clay 8; brown sandy clay & stones 20; gray fine sandy clay & stones 177
130	"	IX	1	"	"	●	6 $\frac{1}{4}$	192	15	25-30	84	F		Top soil 1; brown sandy clay 8; light brown sand 20; dark brown sand 63; dark brown sandy gravel 84; gray sandy clay 192.

